

## ABSTRACT

5 A linear motor device (1) includes an inner yoke, an outer yoke (4), a coil-wound body (8) and a movable magnet portion, first and second clamp rings (2, 3) for clamping the outer yoke (4), and a spacer (5) for coupling the first and second clamp rings (2, 3) at a given spacing. The movable magnet portion drives a piston reciprocating in a cylinder. The first clamping member (2) is provided with a support portion (16) for supporting a spring for pushing the piston. The second clamping member (3) is fixed directly or indirectly to the cylinder. A linear compressor and a  
10 Stirling engine include the above-described linear motor device (1).